6. Andrew Shephard, National Undersea Research Center











NOAA Interest in Gas Hydrates

- "...development of policies that strengthen the links between environmental stewardship and economic growth is a core concern of the Department of Commerce."—DoC Secretary, Dr. R. Brown
- "Although fewer marine than land species have been described, in some respects the marine realm is more diverse. All but one of the world's 33 phyla are found in marine environments, 15 exclusively so." -- <u>http://www.wri.org/biodiv/b04-gbs.html</u>
- "Earth's climate system has varied substantially in the past, often with severe impacts on humankind. . .Dust Bowl of the 1930's. . . Little Ice Age. . .high- impact climatic fluctuations for decadal to century-long time periods." NOAA, Decadal-to-Centennial Change













"Life without Light: The Edge of the Gulf" 2000 Alvin cruise

Sen Gupta, LSU and Bernhard, USC, *"Foraminifera of Hydrocarbon Vents, Gulf of Mexico: Diversity, Ecology, Ultrastructure, and Physiological Adaptations"*

Van Dover, College of William and Mary, *"Comparative biodiversity in seep, vent and intertidal mussel beds"*

MacDonald, Texas A&M University, *"Submersible Sampling of Escarpment Sites during Year 2 of the MMS deep Gulf of Mexico research program"*

Rose, National Environmental Technology Lab, "Presence and stability of exposed gas hydrate beds in the Gulf of Mexico"

